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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/711,655	11/13/2000	Michael A. Freeman	1894-00501	7877
23505 75	590 01/07/2004		EXAMINER	
CONLEY ROSE, P.C. P. O. BOX 3267			TUCKER, PHILIP C	
HOUSTON, T			ART UNIT	PAPER NUMBER
,			1712	
			DATE MAIL ED: 01/07/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	A U. C. No.	A-viloant(a)				
. 4	Application No.	Applicant(s)				
	09/711,655	FREEMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Philip C Tucker	1712				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>06 O</u>	<u>ctober 2003</u> .					
2a) This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)</li></ul>						
Application Papers	·					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the first 37 CFR 1.78.  a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Application in Appli	on No  ed in this National Stage  ed.  e) (to a provisional application)  in an Application Data Sheet.  eeived.  and/or 121 since a specific				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)				

Continuation of Disposition of Claims: Claims allowed are 3-17,19-27,30-43,49,86-91,93-97,101-104,106,108-111,116-124,131,132,150-155,157,158 and 160-162.

Page 2

Application/Control Number: 09/711,655

Art Unit: 1712

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 46-48, 92, 112-114, 130 and 163 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification failed to teach that the contaminant, and in particular hydrogen sulfide, is the triggering signal.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 163 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is no antecedent basis for "said enzyme" in claim 163, or parent claim 130.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 09/711,655

Art Unit: 1712

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 44, 98, 105, 125-127, 129, 133, 147, 148, 156 and 159 are rejected under 35 U.S.C. 102(b) as being anticipated by Tjon-Joe-Pin (5806597).

Tjon-Joe-Pin teaches a well treatment fluid which comprises a polymer and a sequestered enzyme, wherein the enzyme is sequestered by a complex including the polymer and a cross-linker (column 4, lines 13-39). Upon a change in pH or temperature, the enzyme in the complex becomes active and breaks the polymer (column 2, lines 38-58). The intended use in a drilling fluid does not distinguish, in the claims in which a specific drilling step is not disclosed.

- 7. Claims 2, 45, 99, 100, 128, 135-146 and 149 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims **3**-17, 19-27, 30-43, 49, 86-91, 93-97, 101-104, 106, 108-111, 116-124, 131, 132, 150-155, 157, 158, 160-162 are allowable over the art of record.
- 9. Applicants amendments and arguments have been considered but are deemed partially persuasive. Applicants argument that the enzyme of Tjon-Joe-Pin is not encapsulated is deemed persuasive. Applicants argument that the enzyme of Tjon-Joe-

Art Unit: 1712

Pin is not sequestered is not eemed persuasive. Sequestration of the enzyme is clearly taught at column 4, lines 13-39. The rejection is maintained with respect to the claims in paragraph 6. Applicants amendments and arguments are also deemed persuasive with respect to the 35 USC 112 rejection. New rejections under 35 USC 112 are presented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Tucker whose telephone number is 571-272-1095. The examiner can normally be reached on Monday - Friday, Flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Philip C Tucker Primary Examiner Art Unit 1712

PCT-2927